Shen-Qiang Zhai

List of Publications by Year
in descending order

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47	302	1040056 9	1058476 14
papers	citations	h-index	g-index

47	47	47	251
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A normal incident quantum cascade detector enhanced by surface plasmons. Applied Physics Letters, 2012, 100, .	3.3	41
2	19â€‰Î¼m quantum cascade infrared photodetectors. Applied Physics Letters, 2013, 102, .	3.3	31
3	Quantum dot quantum cascade infrared photodetector. Applied Physics Letters, 2014, 104, .	3.3	13
4	Sampled grating terahertz quantum cascade lasers. Applied Physics Letters, 2019, 114, 141105.	3.3	13
5	Phase-locked array of quantum cascade lasers with an intracavity spatial filter. Applied Physics Letters, 2017, 111, .	3.3	12
6	Temperature independent infrared responsivity of a quantum dot quantum cascade photodetector. Applied Physics Letters, 2016, 108, .	3.3	11
7	High-speed, room-temperature quantum cascade detectors at 4.3 Î¼m. AIP Advances, 2016, 6, .	1.3	11
8	High-power phase-locked quantum cascade laser array emitting at Î» â^¼ 4.6 Î¼m. AIP Advances, 2016, 6, .	1.3	10
9	Room Temperature Continuous-Wave Operation of Top Metal Grating Distributed Feedback Quantum Cascade Laser at $lambdasim 7.6~mu{m m}$. IEEE Photonics Technology Letters, 2012, 24, 1100-1102.	2.5	9
10	Room temperature quantum cascade detector operating at 4.3 Î¼m. Journal of Semiconductors, 2014, 35, 104009.	3.7	9
11	High responsivity quantum cascade detectors with bound-to-miniband diagonal transition. Applied Physics Letters, 2021, 119, .	3.3	9
12	High Efficiency, Low Power-Consumption DFB Quantum Cascade Lasers Without Lateral Regrowth. Nanoscale Research Letters, 2017, 12, 281.	5.7	7
13	High performance continuous-wave InP-based 2.1 Î¼m superluminescent diode with InGaAsSb quantum well and cavity structure suppression. Applied Physics Letters, 2018, 113, .	3.3	7
14	Stable Single-Mode Operation of Distributed Feedback Quantum Cascade Laser by Optimized Reflectivity Facet Coatings. Nanoscale Research Letters, 2018, 13, 37.	5.7	7
15	Roomâ€temperature quantum cascade laser packaged module at â^¼8ÂÎ¼m designed for highâ€frequency response. Electronics Letters, 2021, 57, 665-667.	1.0	7
16	Continuous-Wave Operation of Microcavity Quantum Cascade Lasers in Whispering-Gallery Mode. ACS Photonics, 2022, 9, 1172-1179.	6.6	7
17	10-W pulsed operation of substrate emitting photonic-crystal quantum cascade laser with very small divergence. Nanoscale Research Letters, 2015, 10, 177.	5.7	6
18	A Polarization-Dependent Normal Incident Quantum Cascade Detector Enhanced Via Metamaterial Resonators. Nanoscale Research Letters, 2016, 11, 536.	5.7	6

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19	Single-Mode Quantum Cascade Laser at $5.1~mu ext{m}$ With Slotted Refractive Index Modulation. IEEE Photonics Technology Letters, 2017, 29, 1959-1962.	2.5	6
20	Improved performance of InP-based 2.1â€‰Î¼m InGaAsSb quantum well lasers using Sb as a surfactant. Applied Physics Letters, 2018, 113, 251101.	3.3	6
21	Demonstration of High-Power and Stable Single-Mode in a Quantum Cascade Laser Using Buried Sampled Grating. Nanoscale Research Letters, 2019, 14, 123.	5.7	6
22	High-speed operation of single-mode tunable quantum cascade laser based on ultra-short resonant cavity. AIP Advances, 2021, 11, .	1.3	6
23	Normal Incident Long Wave Infrared Quantum Dash Quantum Cascade Photodetector. Nanoscale Research Letters, 2016, 11, 392.	5.7	5
24	Improvement of Buried Grating DFB Quantum Cascade Lasers by Small-Angle Tapered Structure. IEEE Photonics Technology Letters, 2017, 29, 783-785.	2.5	5
25	Normal-incidence quantum cascade detector coupled by nanopore structure. Applied Physics Express, 2018, 11, 042001.	2.4	5
26	High Power Tapered Sampling Grating Distributed Feedback Quantum Cascade Lasers. IEEE Photonics Technology Letters, 2020, 32, 305-308.	2.5	5
27	Broad gain, continuous-wave operation of InP-based quantum cascade laser at Î» â^¼ 11.8 Î¼m*. Chinese Physics B, 2021, 30, 124202.	1.4	5
28	Spectral beam combining of discrete quantum cascade lasers. Optical and Quantum Electronics, 2021, 53, 1.	3.3	5
29	Low Power Consumption Distributed-Feedback Quantum Cascade Lasers Operating in Continuous-Wave Mode above 90Â°C at Î» â^¼ 7.2 Î¼m. Chinese Physics Letters, 2016, 33, 124201.	3.3	4
30	Highâ€power epitaxialâ€side down mounted terahertz quantum cascade lasers. Electronics Letters, 2016, 52, 1401-1402.	1.0	4
31	Coupled Ridge Waveguide Substrate-Emitting DFB Quantum Cascade Laser Arrays. IEEE Photonics Technology Letters, 2017, 29, 213-216.	2.5	4
32	Tapered Quantum Cascade Laser Arrays Integrated with Talbot Cavities. Nanoscale Research Letters, 2018, 13, 205.	5.7	4
33	InP-Based Surface-Emitting Distributed Feedback Lasers Operating at 2004 nm. IEEE Photonics Technology Letters, 2019, 31, 1701-1704.	2.5	3
34	A facile and non-destructive quartz fiber shadow mask process for the sub-micrometer device fabrication on two-dimensional semiconductors. Rare Metals, 2022, 41, 319-324.	7.1	3
35	Low Power Consumption Substrate-Emitting DFB Quantum Cascade Lasers. Nanoscale Research Letters, 2017, 12, 517.	5.7	2
36	Fast Swept-Wavelength, Low Threshold-Current, Continuous-Wave External Cavity Quantum Cascade Laser. Nanoscale Research Letters, 2018, 13, 341.	5.7	2

#	Article	IF	Citations
37	Anomalous Mode Transitions in High Power Distributed Bragg Reflector Quantum Cascade Lasers. Nanoscale Research Letters, 2019, 14, 331.	5.7	2
38	High-Power Terahertz Quantum Cascade Lasers Based on High-Al-Composition Four Quantum Wells. IEEE Photonics Technology Letters, 2022, 34, 671-674.	2.5	2
39	High power THz quantum cascade laser at ∼ 3.1 THz. , 2015, , .		1
40	High Power Substrate-Emitting Quantum Cascade Laser With a Symmetric Mode. IEEE Photonics Technology Letters, 2017, 29, 1994-1997.	2.5	1
41	Response to â€œComment on â€˜Phase-locked array of quantum cascade lasers with an intracavity spatial filterâ€™â€•[Appl. Phys. Lett. 111, 256101 (2017)]. Applied Physics Letters, 2017, 111, 256102.	3.3	0
42	Room temperature operation of InAsSb quantum dashes laser near 1.8 Î¼m based on InP (001) substrate. AIP Advances, 2018, 8, 125114.	1.3	0
43	High Power Quantum Cascade Laser at Î» 5.1 Î¼m Based on Low Strain Compensation Design. Journal of Nanoscience and Nanotechnology, 2018, 18, 7508-7511.	0.9	0
44	High-performance THz Quantum Cascade Lasers in Single-mode. , 2018, , .		0
45	High Spectral-Purity Quantum Cascade Laser for Isotopic Analysis of Carbon Dioxide. Journal of Nanoscience and Nanotechnology, 2018, 18, 7489-7492.	0.9	0
46	THz Quantum Cascade Lasers with Optimized Beam Divergence. , 2019, , .		0
47	Quantum cascade laser frequency comb at 5 THz. , 2021, , .		0